SEASIDE TV

DCT 6400 HD DVR

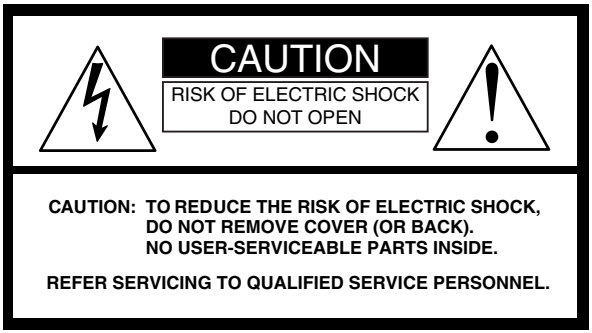
Wiring Instructions

Additional Information

Digital Cable Box

USER MANUAL

Seaside communications


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

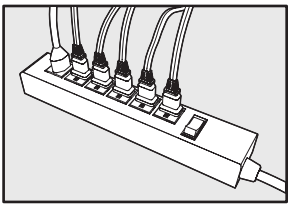
Graphical Symbols and supplemental warning marking locations on bottom of terminal.

WARNING

TO REDUCE THE RISK OF FIRE OR SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO PREVENT ELECTRICAL SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

1 **Read instructions**
All the safety and operating instructions should be read before the digital cable box is operated.

2 **Retain instructions**
The safety and operating instructions should be retained for future reference.

3 **Heed warnings**
All warnings on the digital cable box and in the operating instructions should be adhered to.

4 **Follow instructions**
All operating and use instructions should be followed.

5 **Cleaning**
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6 **Attachments**
Do not use attachments not recommended as they may cause hazard.

7 **Water and moisture**
Do not use this equipment near water; for example, near a bathtub, wash bowl, kitchen sink, or laundry-tub, in a wet basement, or near a swimming pool, and the like.

8 **Accessories**
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall causing serious injury and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the equipment. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

9 **Ventilation**
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the equipment and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug, or similar surface. Equipment should never be placed near or over a radiator or heat register, or in a built-in installation such as a bookcase or rack unless proper ventilation is provided.

10 **Power sources**
This product should be operated only from the type of power sources indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. For equipment intended to operate from battery power, or other sources, refer to the operating instructions.

11 **Ground or polarization**
This equipment may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12 **Alternate warnings**
This equipment may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This pin will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

13 **Power cord protection**
Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

IMPORTANT SAFETY INSTRUCTIONS

14 **Outdoor Cable Grounding**
Ensure the cable system is grounded as to provide some protection against voltage surges and built-up static charges.

15 **Lightning**
For added protection for this equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the video product due to lightning and power line surges.

16 **Overloading**
Do not overload wall outlets and extension cords as this can result in a risk of fire or electrical shock.

17 **Object and liquid entry**
Never push objects of any kind into this equipment through openings, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.

18 **Servicing**
Do not attempt to service this equipment yourself, as opening or removing covers may expose you to dangerous voltage or other hazards, return to Seaside Communications for replacement.

19 **Safety check**
Upon completion of any service to this digital cable box, ask the Seaside service technician to perform safety checks to determine that the product is in proper operational condition.

20 **Heat**
This digital cable box should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

CANADIAN COMPLIANCE

This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations. Cet appareil numérique de la classe B respects toutes les exigences du Règlement sur le matériel brouilleur du Canada.

www.ic.gc.ca/eic/site/ic1.nsf/eng/home

www.ic.gc.ca/eic/site/ic1.nsf/fra/accueil

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INTRODUCTION

Congratulations on receiving a Motorola DCT6400 Series Phase III High Definition Advanced DVR Cable Box. Motorola has merged the features of digital cable – the seemingly endless programming options, interactive program guide, Seaside video on demand (VOD), and commercial free, diital quality music – with the flexibility of a dual tuner digital video recorder (DVR) and the incredible picture quality and sound of high definition TV. HDTV provides up to twice the color resolution and up to six times the sharpness of standard definition TV.

The DCT6400 enables a high quality connection to consumer audio and video devices through the HDMI and Component interfaces. It contains a hard drive for hours of DVR functionality, including recording high definition (HD) programs and watch and record functionality.

This User Guide introduces the basic features, outlines important safeguards, and provides options for integrating your DCT6400 into your entertainment system. Please take a few moments to read through this User Guide. The configuration diagrams, on-screen menu description, and troubleshooting section will help you make the most of your home entertainment experience.

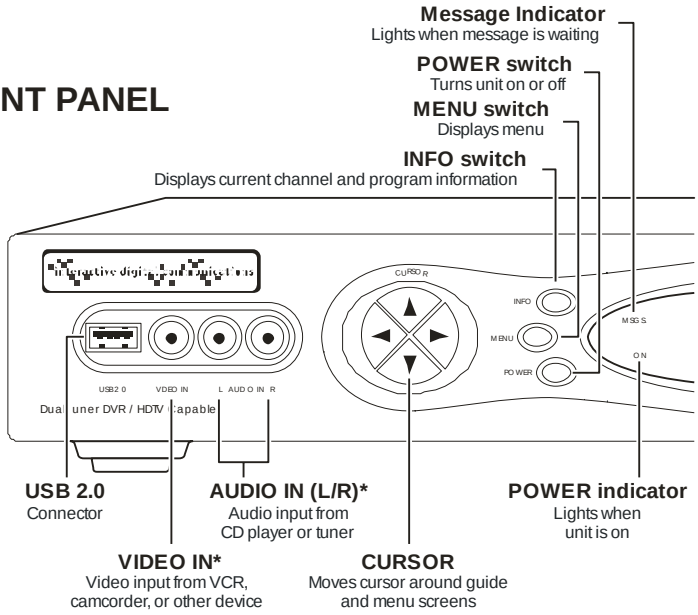
In this guide, “DCT6400” refers to all DCT6400 Series Phase III cable terminals, including the DCT6412 and DCT6416. They function identically, but have different size hard drives.
For example:

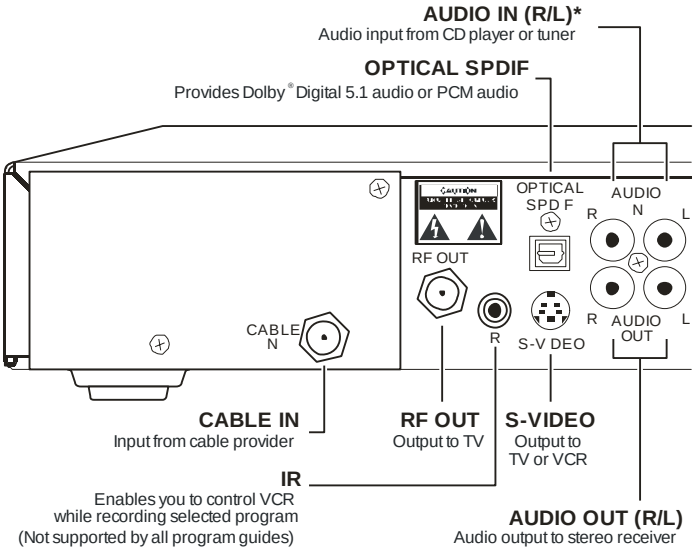
Estimated Recording Hours For

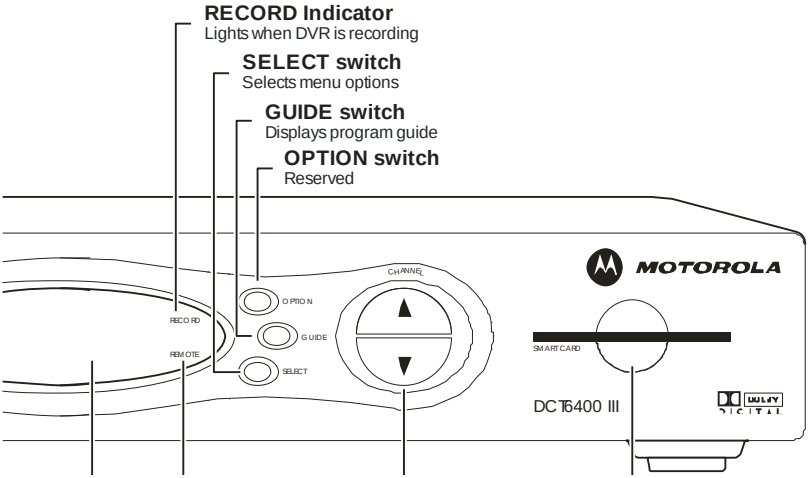
Model	Drive Size	Analog Channels	Standard Digital Channels	HDTV Channels
DCT6412	120 GB	24 to 32	38 to 73	10 to 15
DCT6416	160 GB	35 to 43	55 to 100	14 to 21

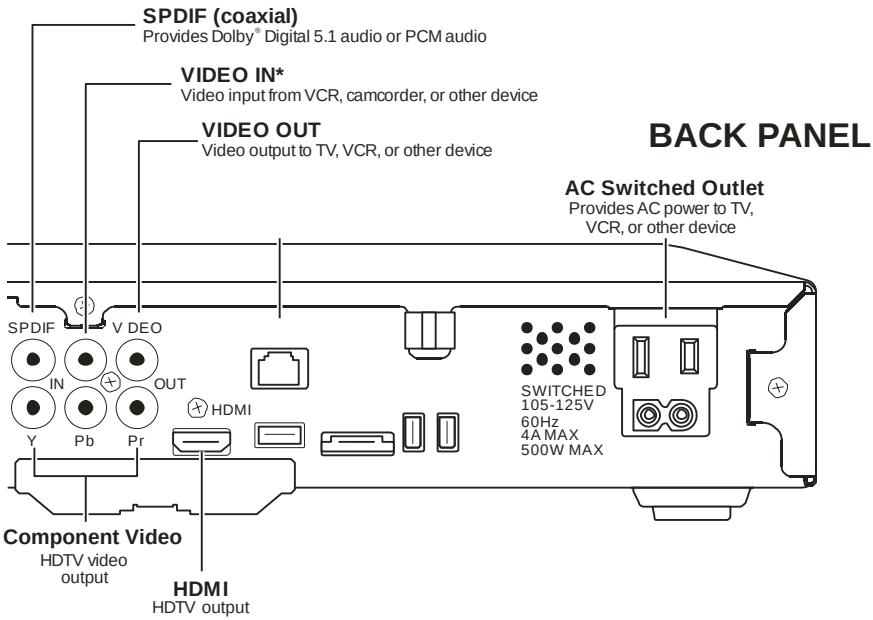
All times are approximate. The actual hours you can record depends on multiple factors.

FRONT PANEL


Message Indicator
Lights when message is waiting
POWER switch
Turns unit on or off
MENU switch
Displays menu
INFO switch
Displays current channel and program information
USB 2.0
Connector
AUDIO IN (L/R)*
Audio input from CD player or tuner
POWER indicator
Lights when unit is on
VIDEO IN*
Video input from VCR, camcorder, or other device
CURSOR
Moves cursor around guide and menu screens


AUDIO IN (R/L)*
Audio input from CD player or tuner
OPTICAL SPDIF
Provides Dolby® Digital 5.1 audio or PCM audio
CABLE IN
Input from cable provider
RF OUT
Output to TV
S-VIDEO
Output to TV or VCR
IR
Enables you to control VCR while recording selected program
(Not supported by all program guides)
AUDIO OUT (R/L)
Audio output to stereo receiver





** Your DCT6400 may not support all of the inputs and outputs shown.*

Turning Power On and Off

Press **POWER** on the front panel to turn the DCT6400 on or off. When using the remote control, be sure it is in cable mode by pressing **CABLE** before pressing **POWER**.

Changing Channels

You can change channels in two ways:

- Press **CHANNEL** ▲ or ▼ on the DCT6400 front panel, or press **CHANNEL** + or – on the remote control to step through the channel selection.
- Enter the number of the channel you wish to view using the number keys on the remote control.

Adjusting the Volume

Press **VOLUME** + or – on the remote control to adjust the volume. When you adjust the volume, the volume scale is displayed on the screen. Press **MUTE** on the remote control to turn the sound off and on again.

For best audio quality, use the remote control to set the DCT6400 to approximately ¾ of the maximum volume level and then adjust the audio levels on external devices such as your TV or A/V Receiver.

Interactive Program Guide

The interactive program guide (IPG) displays information about TV programs and enables you to access features such as Parental Control or Pay-Per-View. IPGs can vary with each cable service provider. Refer to your IPG manual for detailed instructions.

DIGITAL VIDEO RECORDER (DVR)

The DCT6400 contains a hard drive for the digital video recorder (DVR) to record standard- and high-definition TV (HDTV) programs.

A standard VCR records and plays analog video. DVR records and plays digital video. Unlike an analog tape, the hard drive allows simultaneous recording and playback.

A DVR offers the ability to control your viewing experience by pausing (time shifting) live TV and providing trick playback modes (pause, fast forward, slow forward, fast rewind, slow rewind). You may experience a slight delay between time shifted and live TV.

With the DCT6400, you can:

Record Programming

Record hours of TV programming. The total hours of recorded content depends on your hard drive capacity and content type (digital, analog, or HD) that you record.

Maintain a Personal Program Library

Maintain a personal library of recorded programming, accessed using the interactive program guide (IPG).

Control Live TV

Pause, rewind, or fast-forward live TV.

Simultaneously Watch Two Programs

Watch two programs and easily switch between them using the **SWAP** key on your remote control. (Dependent upon program guide support.)

Simultaneous Watch and Record

Record one program in the background while viewing another live broadcast at the same time.

Simultaneously Record Two Shows

Record two programs from two different channels at the same time.

Simultaneously Record Two Shows and Watch a Recorded Program

Watch a recorded program while recording up to two other programs at the same time. You can also easily switch viewing the pre-recorded program and either of the programs you're recording.

OPTIMIZING YOUR DCT6400 FOR HIGH DEFINITION TV

The DCT6400 outputs HD video through its Y Pb Pr (component), HDMI connectors. This section describes how to optimize standard and HD video based on your HDTV and personal preferences.

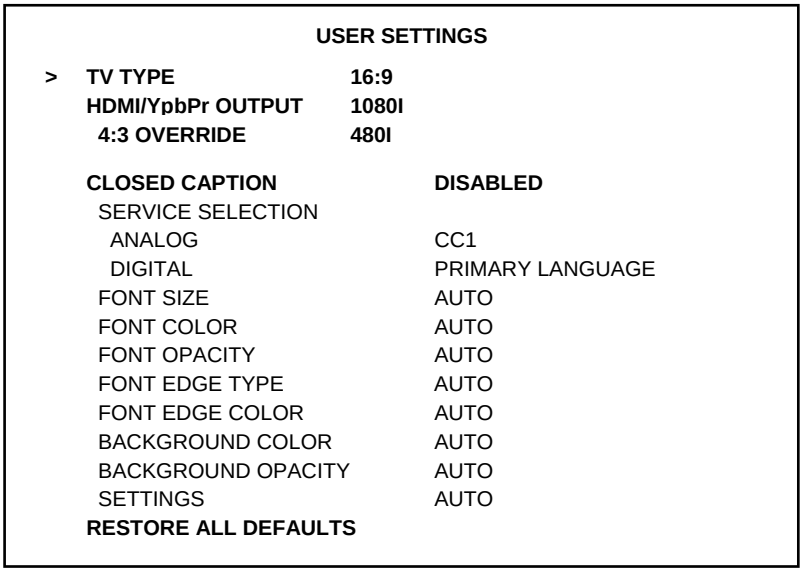
For a TV with an HDMI connection, be sure the TV is on and connected to the DCT6400 HDMI OUT connector before adjusting the settings. Motorola recommends using HDMI cables less than 20 meters long.

You can configure the TV type, HDMI and/or Y Pb Pr video output, and closed captioning.

To optimize the output settings:

1 Be sure your DCT6400 is plugged into a power outlet and connected to your TV.

2 Power off the DCT6400 and then immediately press the **MENU** key on the front panel. If your TV is on, the on-screen menu lists the settings you can configure:



Use your remote control or the cursor keys on the front panel to navigate the on-screen display:

- Press the ▲ and ▼ keys to highlight the setting you wish to change.
- Press the ► key to select an option.
- To exit the setting and move to another setting, use the ▲ and ▼ keys.

If the User Settings menu does not display on the HDTV screen, the TV may not support the default video output setting. Use the front panel LED to adjust the settings as described in "There is no video on the TV screen" in "Troubleshooting."

For a TV with an HDMI connection, be sure the TV is on and connected to the DCT6400 HDMI OUT connector before adjusting the settings.

The User Settings menu options are:

Setting	Description
TV Type	Sets the aspect ratio. The front panel display indicates the type you select. Defaults to 16:9. Options are 16:9 for wide screen TVs or 4:3 LETTERBOX or 4:3 PAN/SCAN for standard TVs: • 4:3 LETTERBOX fits widescreen programming on the screen by placing black bars at the top and bottom. • 4:3 PAN/SCAN fills the screen by cropping the left and right edges of widescreen programming.
HDMI/YPbPr Output	Sets the video display format for the HDMI or component video outputs. The front panel display indicates the format you select. Defaults to 1080i. Options are 1080i, 720p, 480p, or 480i. For HDMI *only*, additional options you can use to display video on a computer monitor are PC1-VGA (640x480) and PC2-XVGA (800x600). Some TVs only support certain display formats. Check your TV user manual for more information. If you are not using the HDMI connection, the HDMI/YPbPr OUTPUT setting displays as YPbPr OUTPUT.

Setting	Description
4:3 Override	Sets the display format for 4:3 standard-definition programming. If the YPbPr Output is set to 1080i, 720p, or 480p, this setting defaults to 480i. If the YPbPr Output is set to 480i, this setting defaults to OFF and cannot be changed. Options are: • **OFF** displays non-high-definition programs having a 4:3 aspect ratio in wide screen format. On an HDTV, black bars display on the left and right of the picture. Selecting OFF for a 4:3 TV may result in a small picture with black bars around it. • **480i** displays non-high-definition programs in their original 480i format. Some TVs cannot display 480i format on their component video inputs (YPbPr). Check the TV user manual for more information. • **480p** converts non-high-definition TV programs to a higher-quality 480p format. Some TVs cannot display 480p format on their component video inputs (YPbPr). Check the TV user manual for more information. • **Stretch** automatically stretches all standard definition programming to fill your widescreen display. Stretch can only be selected if you have TV Type set to 16:9.
Closed Caption	Turns closed captions off or on. The front panel display indicates the status of the closed captions. Defaults to DISABLED. Options are ENABLED or DISABLED.
Closed Caption	Turns closed captions off or on. The LED panel displays the status of the closed captions. Defaults to DISABLED. Options are ENABLED or DISABLED.
Service Selection	Sets the service used for closed captions: • **Analog**: CC1, CC2, CC3, CC4, T1, T2, T3, or T4. The default is CC1. • **Digital:** PRIMARY LANGUAGE, SECONDARY LANGUAGE, 3, 4, 5, or 6. The default is PRIMARY LANGUAGE.
Font Size	Sets the font size for closed captions. Defaults to AUTO. Options are AUTO, STANDARD, LARGE, or SMALL.
Font Style	Sets the font style. Defaults to AUTO. Options are AUTO, MONO SERIF, PROPORTION SERIF, MONO NO SERIF, PROPORTION NO SERIF, CASUAL, CURSIVE, or SMALL.

Setting	Description
Font Color	Sets the font color. Defaults to AUTO. Options are AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN.
Font Opacity	Sets the opacity. Defaults to AUTO. Options are AUTO, TRANSPARENT, TRANSLUCENT, SOLID, or FLASHING.
Font Edge Type	Sets the edge appearance — AUTO, NONE, RAISED, DEPRESSED, UNIFORM, LEFT SHADOWED, or RIGHT SHADOWED. The default is AUTO.
Font Edge Color	Sets the edge color — AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN. The default is AUTO.
Background Color	Sets the background color for closed captions. Defaults to AUTO. Options are AUTO, WHITE, BLACK, RED, GREEN, BLUE, YELLOW, MAGENTA, or CYAN.
Background Opacity	Sets the background opacity for closed captions. Defaults to AUTO. Options are AUTO, TRANSPARENT, TRANSLUCENT, SOLID, or FLASHING.
Settings	Sets the default settings for closed captions (AUTO) or the settings you have configured (USER). Defaults to AUTO. Options are AUTO or USER.
Restore All Defaults	To reset all User Settings to their defaults, select this option and press the ► key. For HDMI only, when you first connect a TV to the DCT6400 using the HDMI connection, the TV and the DCT6400 exchange information to automatically determine the best possible TV TYPE and HDMI/YPbPr OUTPUT settings. You can change these settings at any time: • To cause the HDMI TV and DCT6400 to re-exchange information to restore the automatic settings, select Restore All Defaults with the HDMI connection in place and the TV powered on. • If you connect another HDMI TV to the DCT6400, select Restore All Defaults. This causes the TV and DCT6400 to exchange information, enabling settings suited to your new TV.

To exit the menu and save your settings, press the **POWER** or **MENU** key.

ON-SCREEN GRAPHICS

The DCT6400 can generate on-screen graphics that overlay the video programming or fill the entire television screen. Common examples include on-screen menus (such as the User Setting menu), closed captions, and interactive program guides. The DCT6400 overlays these graphics whenever you display a menu, enable closed captions, or scroll through a program grid.

On-screen graphics are available for all DCT6400 video outputs.

CONNECTING YOUR DCT6400

This section describes connecting the DCT6400 to your home entertainment system.

Instructions and diagrams are included for connections to:

- High definition television (HDTV)
- A/V Receiver – Audio
- Stereo TV
- Stereo TV and Stereo VCR
- A/V Receiver, TV, and VCR

Before you move or change components on your entertainment system, review the following:

- For basic cable connections, use 75-ohm coaxial cables equipped with F-type connectors.
- Disconnect power from the cable terminal before connecting or changing cable connections.

For information on connecting for HDTV, see "Video Options" on the next page.

CAUTION!

Do not place anything on top of the cable terminal, especially other home entertainment components. Be sure to provide adequate ventilation to prevent overheating.

Video Connection Options

The DCT6400 offers the following video outputs:

HDTV Component Video, HDMI

Standard Composite Video, S-Video, or RF coaxial.

To determine the available inputs on your TV, check the manual supplied with the TV or the TV itself.

Use the following guidelines to determine the best video connection for your home entertainment system:

- **Component video (Y Pb Pr) – HDTV and standard**

  The Y Pb Pr connectors on your DCT6400 provide component video, which is the most widely supported HDTV connection.

- **HDMI – HDTV and standard**

  HDMI offers higher video quality than component video. If your TV has an HDMI input, use the HDMI connection on your DCT6400. Motorola recommends using HDMI cables less than 20 meters long.

  HDMI is compatible with DVI. If your TV has a DVI input, you can use an HDMI-to-DVI converter cable to connect to the DCT6400 HDMI connector. Seperate audio cable(s) are required when using HDMI to DVI.

- **S-Video – standard *only***

  If your TV has an S-Video input, use S-Video. S-Video is the highest quality standard-definition video output on the DCT6400.

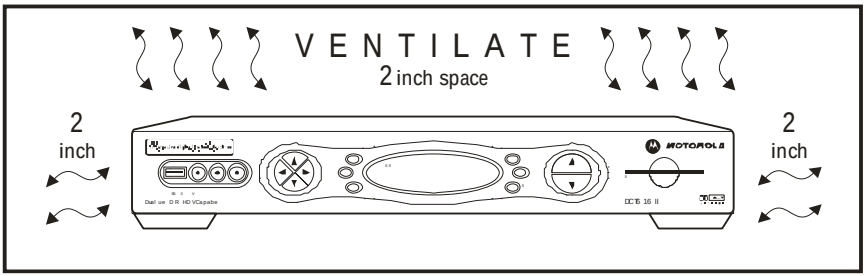
- **Composite video – standard *only***

  If your TV does not have an S-Video input, use the composite video (VIDEO) output.

- **RF coaxial – standard *only***

  If your TV only has a coaxial RF input, connect it to the DCT6400 RF OUT connector.

Important Safety Considerations



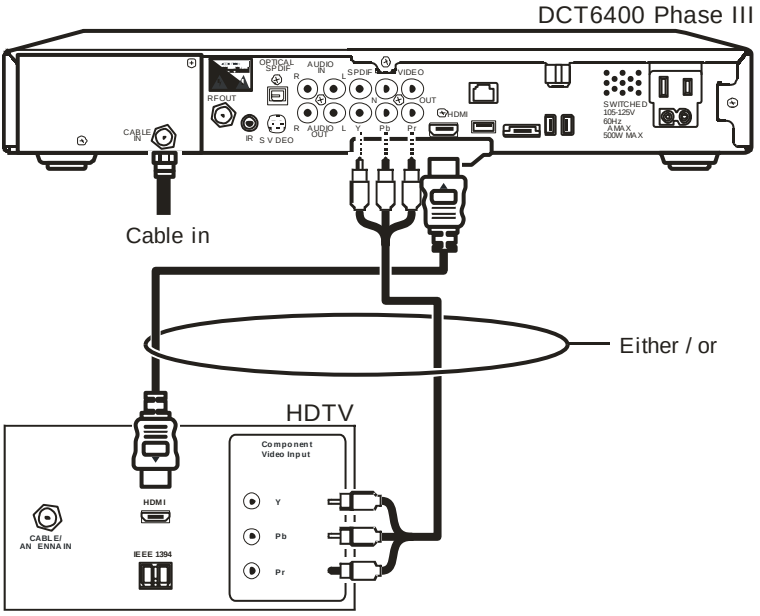
Follow these important safety guidelines when positioning and connecting your cable terminal:

- Position the DCT6400 with at least 2 inches of space above and on all sides
- Do not block the slots and openings
- Do not place anything on top of the DCT6400
- Do not position the DCT6400 in an enclosed space that would restrict airflow around the unit
- Do not position the DCT6400 near any external heat source that could raise the temperature around the unit. Do not place the terminal on top of another heat-producing electronic device.
- Allow for adequate ventilation around the DCT6400 to maintain normal operating temperature. Do not place it in a sealed enclosure without providing for adequate airflow.
- Do not plug the AC power cord into a switched power outlet.

CONNECTING YOUR DCT6400 TO AN HDTV – VIDEO ONLY

HDMI connection

Component video connection



Connecting HDTV – Video Only

1 Connect an RF coaxial cable to the cable wall outlet and the **CABLE IN** connector on the DCT6400.

2 Connect the HDTV using component video, HDMI.

Component video (Y Pb Pr)

Connect the component video cables to the **Y**, **Pb**, and **Pr** connectors on your DCT6400 and the HDTV.

This connection carries video only*. To connect the audio connections for your HDTV, refer to the following page. To connect your audio connections for a home theater receiver, refer to "Connecting Your DCT6400 to an A/V Receiver – Audio Only."*

HDMI

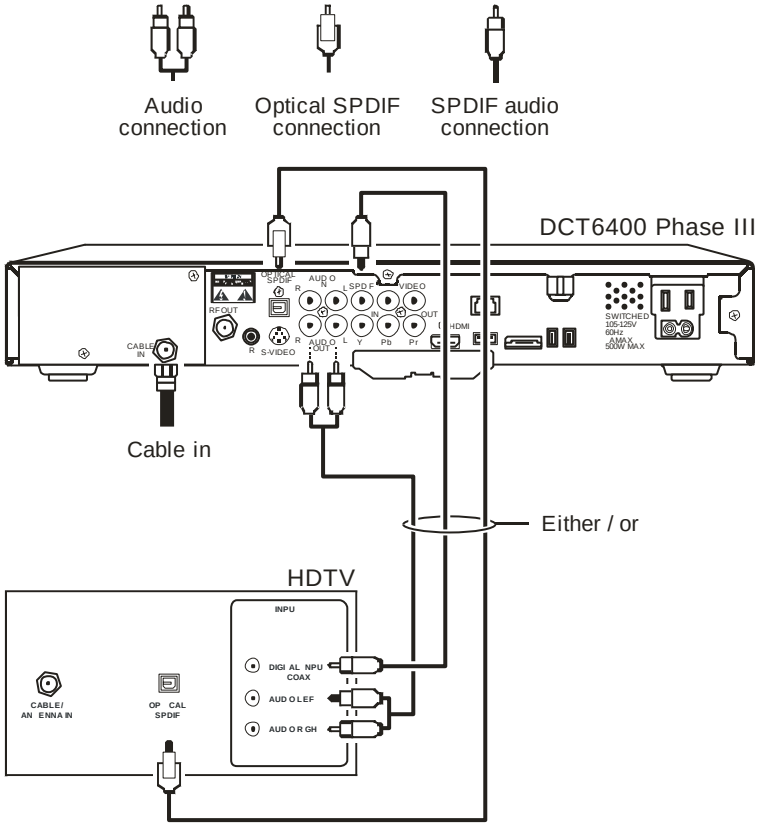
If your HDTV has a HDMI input, connect an HDMI cable less than 20 meters long to the **HDMI OUT** connector on your HDTV and the DCT6400.

If you use the TV as the primary audio source or your home theater receiver has an HDMI input and output, the HDMI connection carries video and audio.

If your TV has a DVI input, you can use an HDMI-to-DVI converter cable to connect to the DCT6400 HDMI connector.

For information on configuring your DCT6400 settings, see "Optimizing Your DCT6400 for High Definition TV."

CONNECTING YOUR DCT6400 TO A HDTV – AUDIO ONLY



Connecting HDTV – Audio Only

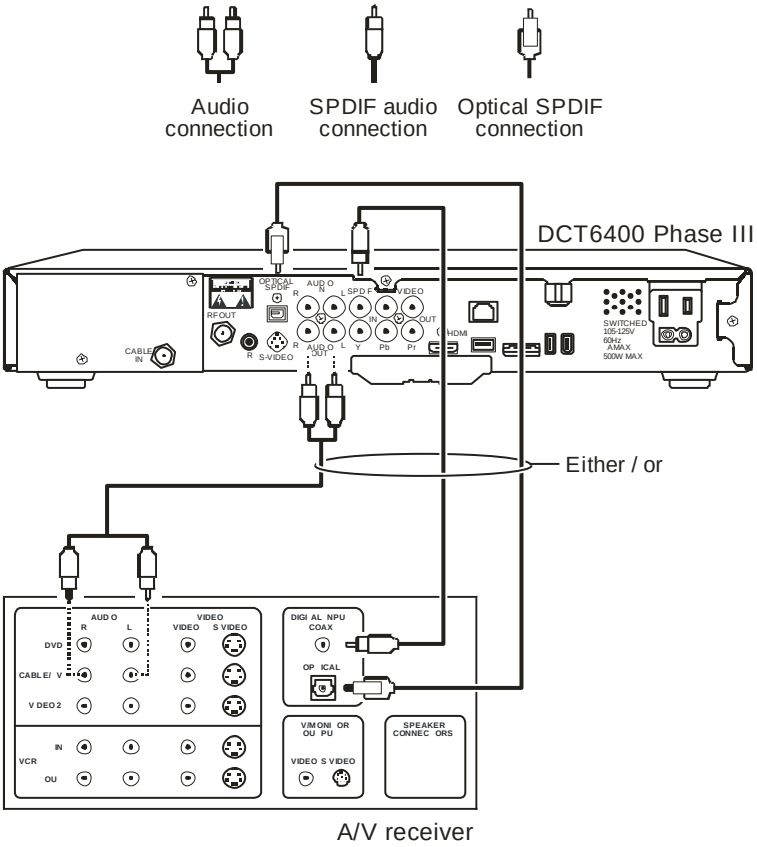
Connect the stereo audio cable to the **AUDIO R** and **L** connectors on the DCT6400 and the corresponding connectors on the HDTV.

If your equipment supports it, use the **OPTICAL SPDIF** or coaxial digital **SPDIF** outputs instead of the AUDIO R and L outputs. In most cases, S/PDIF offers better audio quality, including support for Dolby 5.1 Surround Sound.

HDMI carries video and audio. If you connect the DCT6400 to your HDTV using HDMI, no additional audio connections to the TV are necessary.

For information on configuring your DCT6400 settings, see “Optimizing Your DCT6400 for High Definition TV.”

CONNECTING YOUR DCT6400 TO AN A/V RECEIVER – AUDIO ONLY



Connecting an A/V Receiver – Audio Only

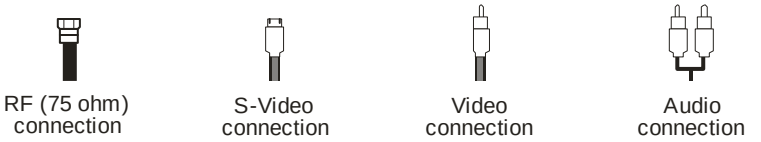
The audio connections options to your A/V receiver or home theater receiver are:

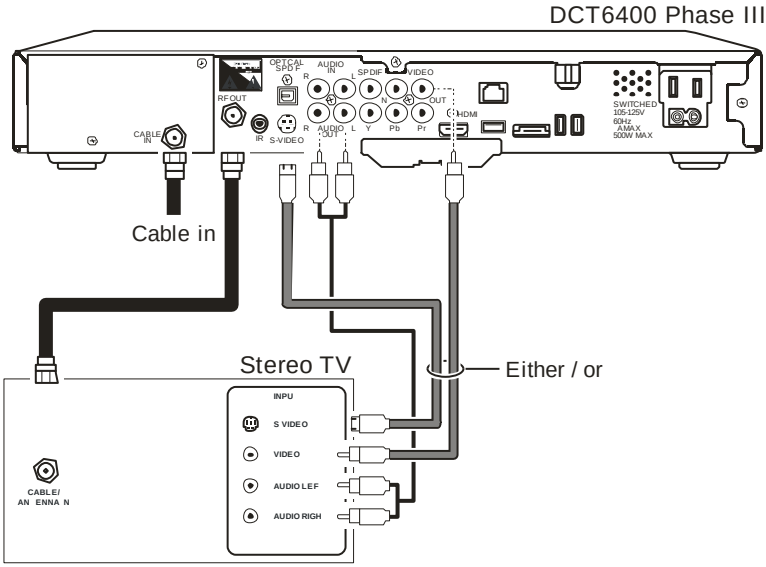
- **Optical SPDIF**: Connect the optical SPDIF cable to the **OPTICAL SPDIF** connector on the DCT6400 and the corresponding connector on the A/V receiver.
- **Coaxial SPDIF**: Connect the digital audio cable to the SPDIF connector on the DCT6400 and the corresponding connector on the A/V receiver.
- **Stereo audio R and L**: Connect the stereo audio cable to the **AUDIO R** and **L** connectors on the DCT6400 and the corresponding connectors on the A/V receiver.

If you're A/V receiver supports it, use the OPTICAL SPDIF or coaxial SPDIF outputs on the DCT6400 instead of its stereo AUDIO R and L outputs. In most cases, S/PDIF offers better audio quality, including support for Dolby 5.1 Surround Sound.

For information on configuring your DCT6400 settings, see "Optimizing Your DCT6400 for High Definition TV."

CONNECTING YOUR DCT6400 TO A STEREO TV





Depending on the TV's inputs:

1 If possible, use the S-VIDEO and AUDIO connectors on the DCT6400.

2 If the TV has no S-Video input, use the composite VIDEO and AUDIO connectors on the DCT6400.

3 If the TV has an RF input *only*, use the RF OUT connector on the DCT6400. The RF connection carries video and audio.

Connecting a Stereo TV

1 Connect an RF coaxial cable to the cable wall outlet and the **CABLE IN** connector on the DCT6400.

2 Connect the stereo audio cable to the **AUDIO R** and **L** connectors on the DCT6400 and the corresponding connectors on the stereo TV.

3 Connect an S-video cable to the **S-VIDEO** connectors on the DCT6400 and the TV.
or
Connect a video cable to the **VIDEO OUT** connector on the DCT6400 and the **VIDEO IN** connector on the TV.

OR

1 Connect an RF coaxial cable to the cable wall outlet and the **CABLE IN** connector on the DCT6400.

2 Connect an RF coaxial cable to the **RF OUT** connector on the DCT6400 and the RF connector on the TV.

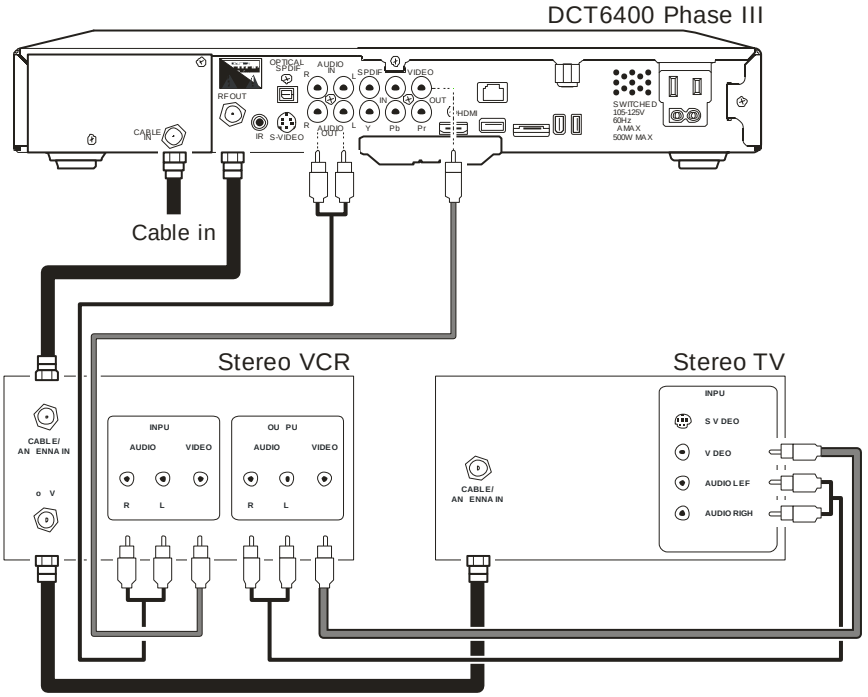
This video connection method does not support HD video. For more information, see "Connecting Your DCT6400 to an HDTV – Video Only."

CONNECTING YOUR DCT6400 TO A STEREO TV AND STEREO VCR

RF (75 ohm) connection

Video connection

Audio connection



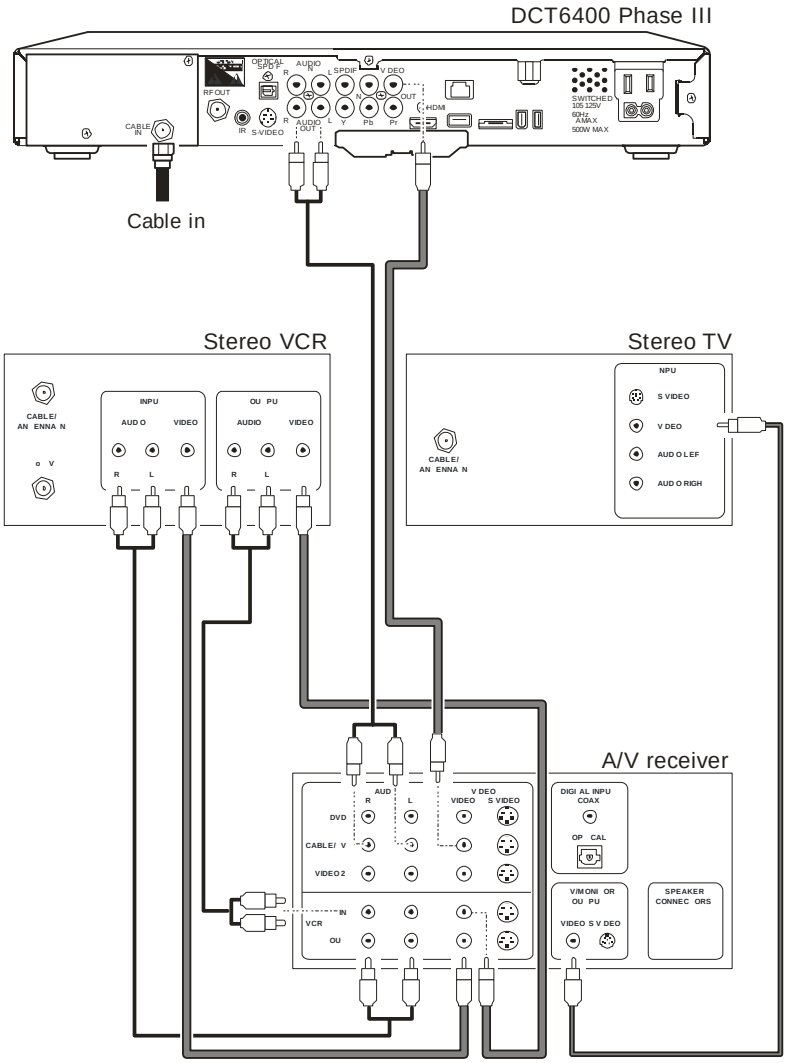
Connecting a Stereo TV and Stereo VCR

1. Connect an RF coaxial cable to the cable wall outlet and the **CABLE IN** connector on the DCT6400.
2. Connect a stereo audio cable to the **AUDIO OUT R** and **L** connectors on the DCT6400 and the **INPUT AUDIO R** and **L** connectors on the stereo VCR.
3. Connect a video cable to the **VIDEO OUT** connector on the DCT6400 and the **INPUT VIDEO** connector on the stereo VCR.
4. Connect a stereo audio cable to the **OUTPUT AUDIO R** and **L** connectors on the stereo VCR and the **INPUT AUDIO RIGHT** and **LEFT** connectors on the stereo TV.
5. Connect a video cable to the **OUTPUT VIDEO** connector on the stereo VCR and the **INPUT VIDEO** connector on the stereo TV.

This video connection method does not support HD video. For more information, see "Connecting Your DCT6400 to an HDTV – Video Only."

CONNECTING YOUR DCT6400 TO AN A/V RECEIVER, TV, AND VCR

RF (75 ohm) connection | Video connection | Audio connection | Optical SPDIF connection



Connecting an A/V Receiver, TV, and VCR

1. Connect an RF coaxial cable to the cable wall outlet and the **CABLE IN** connector on the DCT6400.
2. Connect a stereo audio cable to the **AUDIO OUT R** and **L** connectors on the DCT6400 and the **INPUT R** and **L** connectors on the A/V receiver.
3. Connect a video cable to the **VIDEO OUT** connector on the DCT6400 and the **CABLE/TV VIDEO** connector on the A/V receiver.
4. Connect a stereo audio cable to the **VCR AUDIO OUT R** and **L** connectors on the A/V receiver and the **INPUT AUDIO R** and **L** connectors on the stereo VCR.
5. Connect a stereo audio cable to the **OUTPUT AUDIO OUT R** and **L** connectors on the stereo VCR and the **VCR AUDIO IN R** and **L** connectors on the A/V receiver.
6. Connect a video cable to the **INPUT VIDEO** connector on the stereo VCR and the **VIDEO VCR OUT** connector on the A/V receiver.
7. Connect a video cable to the **OUTPUT VIDEO** connector on the stereo VCR and the **VIDEO VCR IN** connector on the A/V receiver.
8. Connect a video cable to the **INPUT VIDEO** connector on the stereo TV and the **TV/MONITOR OUTPUT** video connector on the A/V receiver.

If you can:

- Use the OPTICAL SPDIF or coaxial SPDIF outputs instead of the stereo AUDIO R and **L** outputs. In most cases, S/PDIF offers better audio quality, including support for Dolby 5.1 Surround Sound.
- Use the S-video connections instead of the standard RCA video connections. In most cases, S-video offers better video quality.

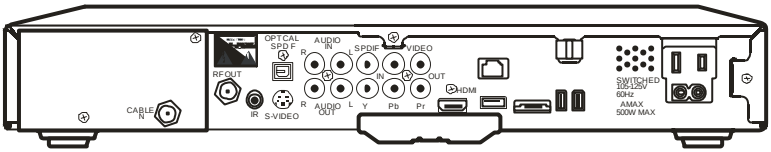
This video connection method does not support HD video. For more information, see “Connecting Your DCT6400 to an HDTV – Video Only.”

RECORDING YOUR CONNECTIONS

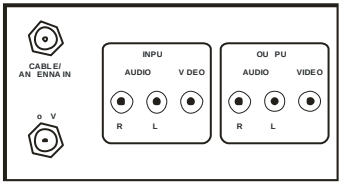
Use this diagram to record connections between your home entertainment components. You can use this diagram to reconnect your system if you move the equipment or add new equipment.

Disconnect the power from the DCT6400 before connecting or changing cable connections. Do not place another component or object on top of the DCT6400.

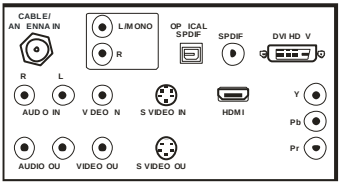
DCT6400 Phase III



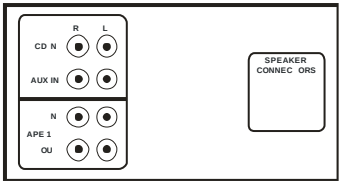
VCR



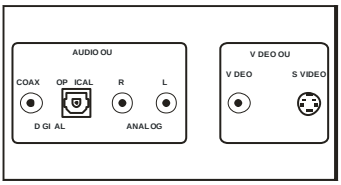
TV



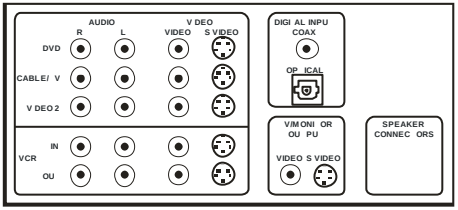
Stereo receiver



DVD

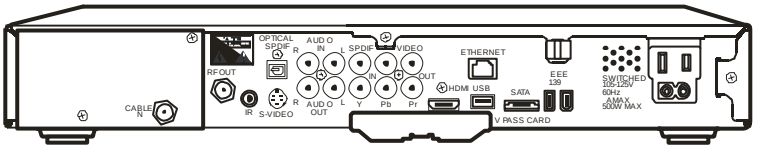


A/V receiver



DATA DEVICES

DCT6400 Phase III



Ethernet, SATA, USB and IEEE1394 are currently not supported by Seaside Communications.

TROUBLESHOOTING

Before calling Seaside Commnications, review this troubleshooting guide. This information is to help you quickly solve a problem. If your problem still exists, call 539-6250

Problem	Possible Solution
The DCT6400 will not power on	The DCT6400 may have received a software update and may not power on while the new software is being installed. Try again in a few minutes. Verify that the AC power cord is connected to the DCT6400 and an AC outlet. Unplug the DCT6400 from the AC outlet, plug it back in, and then press the **POWER** button. If the DCT6400 is connected to a switched outlet on another unit, verify that that unit is powered on. Press the **POWER** button on the DCT6400 front panel instead of the remote control. The batteries in the remote control may be depleted.
The remote control does not work	Verify that the remote control is in “Cable” mode. Verify that there are no obstructions between the remote control and the DCT6400. Aim the remote control directly at the DCT6400 front panel, not the TV or VCR. The angle between the remote control and the DCT6400 may be too large. Stand in front of the DCT6400 and not too far to either side. Press and release operation keys one at a time, firmly and deliberately. Try changing channels using the buttons on the DCT6400 front panel. Check the batteries in the remote control. Install new batteries if needed.

Problem	Possible Solution
There is no audio when viewing cable channels	Verify that the **MUTE** button on the DCT6400 or the remote control was not pressed. Press **MUTE** on the remote control to restore sound. If the DCT6400 audio output is connected to the TV, verify that the MUTE button on the TV was not pressed. If the DCT6400 audio output is connected to a home theater receiver, verify that the receiver is set to the appropriate input source and the mute button on the receiver was not pressed. Verify that you used the correct audio cables for the ports. Verify that the audio cables are firmly connected between the DCT6400 and the audio playback device (TV, receiver, DVD player, etc.).
There is no audio from the center and/or surround speakers of a home theater receiver connected to the DCT6400	Not all Dolby Digital programs feature full 5.1 surround sound. In some cases, the programs may only contain left and right stereo audio. Verify that the coaxial or optical SPDIF cable is firmly connected to the DCT6400 and the home theater receiver. Verify that the home theater receiver is set to a surround sound audio mode (Dolby Digital, Dolby Pro Logic® II, or Dolby Pro Logic). Verify that the receiver is properly configured to work with all connected speakers.

Problem	Possible Solution
There is no video on the TV screen	Verify that the TV is powered on and set to the appropriate input source for the DCT6400. Verify that the DCT6400 is powered on and tuned to an authorized cable channel. Verify that all video cables between the DCT6400 and the TV are firmly connected. Verify that the coaxial cable feed is firmly connected to the DCT6400 and the wall jack. If the DCT6400 is connected to a home theater unit, verify that the home theater unit is powered on and set to the appropriate input source. If the DCT6400 is connected to a TV through its HDMI connection, power off the TV and then power off the DCT6400. Wait one second and then power on the devices. Not all HDTVs can display every output format (1080i, 720p, 480p, or 480i) available on the DCT6400. To select a different format: **1** Ensure that your DCT6400 is plugged into a power outlet and is turned off. **2** Press the **MENU** key on the front panel. Your settings are displayed on the DCT6400 front panel display. **3** Press the ▲ and ▼ keys to display the **HDMI/YPbPr OUTPUT** setting. **4** Press the ► key to cycle through the available output formats until a picture displays on the TV.
No closed captions display	Verify on the User Settings menu that closed captions are enabled on the DCT6400. Verify that closed captions are enabled on the TV.

Problem	Possible Solution
There are black bars to the right and left of the picture	Wide screen TVs display 4:3 programs in this format unless set to Stretch. Turn on the 4:3 OVERRIDE feature in the User Settings menu. This enables most wide screen TVs to stretch the video to fill the screen (see your TV manual for information about stretching 4:3 video). If the DCT6400 is connected to a wide screen TV, verify that the TV TYPE is set to 16:9 in the User Settings menu. Many HD programs are broadcast in pillar-box format with black bars to the left and right of the picture. These programs are broadcast in 16:9 HD formats even though the video is not 16:9.
There are black bars above and below the picture	All 4:3 HDTVs display HD programs in letterbox format (black bars above and below the picture) because of the shape of the display screen. Turn on the 4:3 OVERRIDE feature in the User Settings menu. This enables most standard screen TVs to display a full screen picture when the DCT6400 is tuned to a 4:3 program. Set the TV TYPE to 4:3 Pan-Scan. This enables the DCT6400 to remove the black bars above and below the picture when possible. Some SD programs are broadcast in the letterbox format with black bars above and below the picture. Some wide screens TVs offer a zoom feature that may be able to remove the black bars (see your TV manual for information about zooming 4:3 video).

Problem	Possible Solution
There are black bars on all four sides of the picture	This may occur on a 4:3 TV if the 4:3 OVERRIDE setting is OFF. To set 4:3 SD programming to fill the screen, depending on the capabilities of the TV, set 4:3 OVERRIDE to 480i or 480p. This may occur on a 16:9 TV if the active video for an SD broadcast is in letterbox format. To confirm, wait for a commercial or look for a graphic, such as a network logo. If the commercial fills the screen from top to bottom, or the graphic appears below the active video, the program is being letterboxed by the broadcaster. You can minimize this by activating the zoom feature on the TV. A broadcaster may include black bars on either side of a wide screen broadcast. This is called a “hybrid” aspect ratio and results in a black border surrounding the video on a 4:3 TV. Because this is part of the broadcast, the DCT6400 cannot correct the video. You may be able to minimize the border using the zoom feature on the TV.
The DCT6400 is making a humming noise.	The DCT6400 includes an integrated hard drive and a fan for cooling. During normal operation, the DCT6400 emits a low humming noise, similar to a personal computer. The noise varies in volume occasionally when the speed of the internal fan adjusts to changes in the temperature around the DCT6400. Please note the hard drive will stay on even when the DCT6400 is turned off.

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539-6250

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